

**LAND APPLICATION SITE**

**B.A. TIGNOR, JR.**

**CRBAT 1 - 15**

**CAROLINE COUNTY**

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 5-13-19 between Benjamin A. Tigner Jr. Tr. referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Caroline Co. Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>60-A-21</u>	<u>77-A-12</u>		
<u>75-A-67</u>	<u>77-A-14, 15</u>		
<u>76-A-18</u>	<u>77-A-26</u>		
<u>76-5-2</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.  
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Benjamin A. Tigner Jr. Tr.</u>	Mailing Address <u>31398 Sparta Road</u> <u>Milford Va. 22514</u>	Landowner Signature <u>B. A. Tigner Jr.</u>
By: <u>B. A. Tigner Jr.</u>	Phone No. <u>804-512-8992</u>	
Title* <u>Owner</u>		
<input checked="" type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc. <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

**Permittee:**

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature <u>[Signature]</u>
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Benjamin A. Tignor, Jr.

**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
  - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
  - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
  - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
  - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

  - a. Meat producing livestock shall not be grazed for 30 days;
  - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
  - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

B.A. Tignor, Jr.  
Landowner's Signature

5-13-2019  
Date

B.A. Tignor, Jr.  
Operator's Signature

31398 Sparta Rd.  
Milford, Va. 22514  
mailing address & phone  
804-512-8992

5-13-19  
Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 5-13-19 between Brenda C. Tignor Tr. referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

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<u>76-5-2</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.  
☒ The Landowner is one of multiple owners of the properties identified herein.

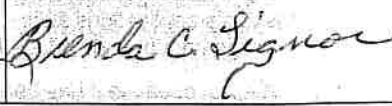
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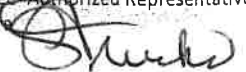
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Printed name <u>Brenda C. Tignor Tr.</u> By: <u>Brenda C. Tignor</u> Title: <u>Owner</u>	Mailing Address <u>31398 Sparta Road</u> <u>Milford Va. 22514</u> Phone No. <u>804-633-9008</u>	Landowner Signature 
<input checked="" type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
<input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

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Printed name Susan Trumbo	Mailing Address PO Box 562, Remington Virginia 22734	Permittee Authorized Representative Signature: 
Title Technical Manager	Phone No. 540-547-3300	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Brenda C. Tignor

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Brenda C. Tignor  
Landowner's Signature

5-13-2019

Date

B. A. Tignor, Jr.  
Operator's Signature

31398 Sparta Road  
Milford, Va. 22514

mailing address & phone

804-512-8992

5-13-19

Date

# FARM DATA SHEET

<b>SITE NAME:</b>	B.A. TIGNOR, JR	<b>COUNTY:</b>	CAROLINE
<b>OWNER:</b>	B.A. TIGNOR, JR. -TRUSTEE BRENDA C TIGNOR- TRUSTEE	<b>OPERATOR:</b>	B.A. TIGNOR JR.
<b>OWNER'S</b>		<b>OPERATOR'S</b>	SAME
<b>ADDRESS:</b>	31398 SPARTA ROAD MILFORD, VA 22514	<b>ADDRESS:</b>	
<b>OWNER'S TELEPHONE:</b>	804-633-9008	<b>OPERATOR'S TELEPHONE:</b>	804-633-9008
<b>GENERAL FARM TYPE:</b>	ROW CROPS/PASTURE/HAY	<b>CELL PHONE:</b>	804-512-8992
<b># CATTLE:</b>	35	<b>EMAIL:</b>	batignor@gmail.com
<b>LAGOON or SLURRY:</b>	NONE	<b>LATITUDE:</b>	F 1-10 37.975 F11-12 37.977 F 13-15 38.000
<b>TOPO QUAD:</b>	CANTHORNVILLE, SPARTA, SUPPLY	<b>LONGITUDE:</b>	F 1-10-77.096 F 11-12-77.141 F 13-15-77.167
<b>COMMENTS:</b>		<b>METHOD OF DETERMINATION:</b>	Online Maps

SD 8

5-28-19

## **B.A. TIGNOR JR. NEW FIELD NUMBERS**

FIELD #1 WAS OLD FIELD 8

FIELD #2 WAS PART OF OLD FIELD 19

FIELD #3 WAS PART OF OLD FIELD 19

FIELD #4 WAS OLD FIELD 20

FIELD #5 WAS OLD FIELD 21

FIELD #6 WAS OLD FIELD 22

FIELD #7 WAS OLD FIELD 23

FIELD #8 WAS OLD FIELD 24

FIELD #9 WAS OLD FIELD 25

FIELD #10 WAS OLD FIELD 26

FIELD #11 WAS OLD FIELD 14 *and field 27*

FIELD #12 WAS OLD FIELD 15

FIELD #13 WAS OLD FIELD 5

FIELD #14 WAS OLD FIELD 6

FIELD #15 WAS OLD FIELD 7

# RECYC SYSTEMS, INC

## FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
CRBAT-01N	15.6	-	-	-	-	Y0 52	77-A-26	T 2825 F 1
CRBAT-02N	8.7	-	-	-	-	Y0 52	77-A-26	T 2825 F 1, 2
CRBAT-03N	9.1	-	-	-	-	Y0 52	77-A-26	T 2825 F 3
CRBAT-04N	13.9	-	-	-	-	Y0 52	77-A-26	T 2824 F 3,4 T 2825 F 4,5
CRBAT-05N	6.7	-	-	-	-	Y0 52	77-A-26	T 2825 F 6
CRBAT-06N	13.4	-	-	-	-	Y0 52	77-A-26	T 2825 F 7
CRBAT-07N	14.0	-	-	-	-	Y0 52	77-A-15	T 1521 F 5
CRBAT-08N	45.5	-	-	-	-	Y0 52	77-A-14 77-A-12	T 1521 F 4
CRBAT-09N	14.4	-	-	-	-	Y0 52	77-A-12	T 1521 F 3
CRBAT-10N	28.6	-	-	-	-	Y0 52	77-A-12	T 1521 F 2

0/02/20

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
CRBAT-11N	18.6	-	-	-	-	Y0 52	76-A-18	T 1278 F 1
CRBAT-12N	23.1	-	-	-	-	Y0 52	76-5-2	T 1564 F 1
CRBAT-13N	13.7	-	-	-	-	Y0 52	60-A-21	T 284 F 1
CRBAT-14N	27.8	-	-	-	-	Y0 52	60-A-21	T 284 F 2,3
CRBAT-15N	29.2	4A Nov.-July	-	-	4A Nov.-July	Y0 52	75-A-67	T 284 F 4
TOTAL ACRES IN SITE	282.3							

5/22/2020

[illegible]

Report Number: 18-022-0699

Account Number: 70594



7621 Whitepine Road, Richmond, VA 23237

Main 804-743-9401 • Fax 804-271-6446

www.waypointanalytical.com

Send To: Recyc Systems Inc  
Susan Trumbo  
8455 Whiteshop Road  
Culpepper VA 22701

"Every acre...Every year."™

Grower: B A Tignor  
Caroline Co

**SOIL ANALYSIS REPORT**

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 01/22/2018

Date Of Analysis: 01/23/2018

Date Of Report: 01/23/2018

Sample ID Field ID	Lab Number	OM	W/V	ENR	Phosphorus			Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C
		% Rate	Soil Class	lbs/A	M3 ppm    Rate	ppm    Rate	ppm    Rate	K ppm    Rate	Mg ppm    Rate	Ca ppm    Rate	Na ppm    Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
14	19791	1.9 L		82	78    H			111    H	92    H	536    M		6.6		0.2	3.9
15	19792	1.8 L		80	64    H			99    H	99    H	601    H		6.8		0.1	4.2

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts		
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate		
14	7.3	19.7	68.7		5.1			3.5 H	13 M						
15	6.0	19.6	71.5		2.4			4.6 H	22 H						

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Pauric McGroary*

Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

***Nutrient Management Plan Balance Sheet***  
***(Spring, 2019-Summer, 2021)***  
***B. A. Tignor Jr.***  
***Planner: John Doe***

Tract: 284

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/CRBAT 13(N)	14/14	2019	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			
2, 3/CRBAT 14(N)	28/28	2019	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			
4/CRBAT 15(N)	29/29	2019	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 1278      Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/CRBAT 11(N)	19/19	2019	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 1521

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
5/CRBAT 7(N)	14/14	2019	Corn (grain)	140-60-60	20/0				120-60-60	N/A			
4/CRBAT 8(N)	46/46	2019	Corn (grain)	140-60-60	20/0				120-60-60	N/A			
3/CRBAT 9(N)	14/14	2019	Corn (grain)	140-60-60	20/0				120-60-60	N/A			
2/CRBAT 10(N)	29/29	2019	Corn (grain)	140-60-60	20/0				120-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 1564

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/CRBAT 12(N)	23/23	2019	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:



Tract: 2825

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/CRBAT 1(N)	16/16	2019	Grass Pasture	50-80-80	0/0				50-80-80	N/A			
1, 2/CRBAT 2(N)	9/9	2019	Grass Pasture	50-80-80	0/0				50-80-80	N/A			
3/CRBAT 3(N)	9/9	2019	Grass Pasture	50-80-80	0/0				50-80-80	N/A			
4, 5/CRBAT 4(N)	14/14	2019	Grass Pasture	50-30-40	0/0				50-30-40	N/A			
6/CRBAT 5(N)	7/7	2019	Grass Pasture	50-30-40	0/0				50-30-40	N/A			
7/CRBAT 6(N)	13/13	2019	Grass Pasture	50-30-40	0/0				50-30-40	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

**Soil Test Summary**

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
284	CRBAT 13	14	[No Test]						
284	CRBAT 14	28	[No Test]						
284	CRBAT 15	29	[No Test]						
1278	CRBAT 11	19	[No Test]						
1521	CRBAT 7	14	[No Test]						
1521	CRBAT 8	46	[No Test]						
1521	CRBAT 9	14	[No Test]						
1521	CRBAT 10	29	[No Test]						
1564	CRBAT 12	23	[No Test]						
2825	CRBAT 1	16	[No Test]						
2825	CRBAT 2	9	[No Test]						
2825	CRBAT 3	9	[No Test]						
2825	CRBAT 4	14	[No Test]						
2825	CRBAT 5	7	[No Test]						
2825	CRBAT 6	13	[No Test]						

### **Field Productivities for Major Crops**

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
284	284/1	CRBAT 13	14	Kempsville	IIIa	II	Not Suited	III	
	284/2, 3	CRBAT 14	28	Kempsville	IIIa	II	Not Suited	III	
	284/4	CRBAT 15	29	Kempsville	IIIa	II	Not Suited	II	
1278	1278/1	CRBAT 11	19	Kempsville	IIIa	II	Not Suited	III	
1521	1521/5	CRBAT 7	14	Kempsville	IIIa	II	Not Suited	II	
	1521/4	CRBAT 8	46	Kempsville	IIIa	II	Not Suited	II	
	1521/3	CRBAT 9	14	Kempsville	IIIa	II	Not Suited	II	
	1521/2	CRBAT 10	29	Kempsville	IIIa	II	Not Suited	II	
1564	1564/1	CRBAT 12	23	Kempsville	IIIa	II	Not Suited	III	
2825	2825/1	CRBAT 1	16	Slagle	IIIa	II	III	II	
	2825/1, 2	CRBAT 2	9	Kempsville	IIIa	II	III	II	
	2825/3	CRBAT 3	9	Kempsville	IIIa	II	Not Suited	II	
	2825/4, 5	CRBAT 4*	14	Kempsville	IIIa	II	Not Suited	III	High Leaching, High Slope
	2825/6	CRBAT 5	7	Kempsville	IIIa	II	Not Suited	III	
	2825/7	CRBAT 6	13	Kempsville	IIIa	II	Not Suited	III	

\* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applications.

### **Yield Range**

Field Productivity	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
-----------------------	-----------------------	-----------------------------------	-----------------------	----------------------	------------------------

Group					
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

## Farm Summary Report

**Plan:**            **New Plan**        **Spring, 2019 - Summer, 2021**

**Farm Name:**    **B. A. Tignor Jr.**

Location:        Caroline

Specialist:      John Doe

N-based Acres: 282.3

P-based Acres: 0.0

**Tract Name:**    **284**

FSA Number:    284

Location:                Caroline

**Field Name:**     **CRBAT 13**

Total Acres:    13.70    Usable Acres:   13.70

FSA Number:    1

Tract:            284

Location:                Caroline

Slope Class:    C            Hydrologic Group:    B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

### *P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

### **Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

### **Soils:**

PERCENT	SYMBOL	SOIL SERIES
26	10E	Emporia Kempsville Remlik
70	11B	Emporia Kempsville
5	21C	Kempsville Slagle

**Field Warnings:**

**Field Name:** CRBAT 14

Total Acres: 27.80 Usable Acres: 27.80

FSA Number: 2, 3

Tract: 284

Location: Caroline

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
8	21C	Kempsville Slagle
83	11B	Emporia Kempsville
10	10E	Emporia Kempsville Remlik

**Field Warnings:**

**Field Name:** CRBAT 15

Total Acres: 29.20 Usable Acres: 29.20

FSA Number: 4

Tract: 284

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
54	11B	Emporia Kempsville
44	21C	Kempsville Slagle
2	4A	Bibb Chastain

**Field Warnings:**

**Tract Name:** 1278

FSA Number: 1278

Location: Caroline

**Field Name:** CRBAT 11

Total Acres: 18.60 Usable Acres: 18.60

FSA Number: 1

Tract: 1278

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
------	----	---	---	-----

[NO TEST]

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
6	11A	Emporia Kempsville
62	11B	Emporia Kempsville
18	11C	Emporia Kempsville
15	21C	Kempsville Slagle

**Field Warnings:**

**Tract Name:** 1521

FSA Number: 1521

Location: Caroline

**Field Name:** CRBAT 7

Total Acres: 14.00 Usable Acres: 14.00

FSA Number: 5

Tract: 1521

Location: Caroline

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
49	21C	Kempsville Slagle
51	11B	Emporia Kempsville

**Field Warnings:**

**Field Name:** CRBAT 8

Total Acres: 45.50 Usable Acres: 45.50

FSA Number: 4

Tract: 1521

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
73	11B	Emporia Kempsville
27	21C	Kempsville Slagle

**Field Warnings:**

**Field Name:** CRBAT 9

Total Acres: 14.40 Usable Acres: 14.40

FSA Number: 3

Tract: 1521

Location: Caroline

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
32	21C	Kempsville Slagle
50	11B	Emporia Kempsville
19	10E	Emporia Kempsville Remlik

**Field Warnings:**

**Field Name:** CRBAT 10

Total Acres: 28.60 Usable Acres: 28.60

FSA Number: 2

Tract: 1521

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
---------	--------	-------------

2	10E	Emporia Kempsville Remlik
65	11B	Emporia Kempsville
33	21C	Kempsville Slagle

**Field Warnings:**

**Tract Name:** 1564  
**FSA Number:** 1564  
**Location:** Caroline

**Field Name:** CRBAT 12  
**Total Acres:** 23.10 **Usable Acres:** 23.10  
**FSA Number:** 1  
**Tract:** 1564  
**Location:** Caroline  
**Slope Class:** C **Hydrologic Group:** B

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

*P-Index Summary*

N-based  
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
23	10E	Emporia Kempsville Remlik
22	11A	Emporia Kempsville
53	11B	Emporia Kempsville
2	11C	Emporia Kempsville

**Field Warnings:**

**Tract Name:** 2824

FSA Number: 2824  
Location: Caroline

**Tract Name: 2825**  
FSA Number: 2825  
Location: Caroline

**Field Name: CRBAT 1**  
Total Acres: 15.60 Usable Acres: 15.60  
FSA Number: 1  
Tract: 2825  
Location: Caroline  
Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**  
Pasture (>75% cover)

*P-Index Summary*  
N-based  
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**  
DATE PH P K Lab  
[NO TEST]

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
24	11B	Emporia Kempsville
76	21C	Kempsville Slagle

**Field Warnings:**

**Field Name: CRBAT 2**  
Total Acres: 8.70 Usable Acres: 8.70  
FSA Number: 1, 2

Tract: 2825  
Location: Caroline  
Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
62	21C	Kempsville Slagle
38	11B	Emporia Kempsville

**Field Warnings:**

**Field Name:** CRBAT 3

Total Acres: 9.10 Usable Acres: 9.10

FSA Number: 3

Tract: 2825

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
56	11B	Emporia Kempsville
44	21C	Kempsville Slagle

**Field Warnings:**

**Field Name:** CRBAT 4

Total Acres: 13.90 Usable Acres: 13.90

FSA Number: 4, 5

Tract: 2825

Location: Caroline

Slope Class: D Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
42	11B	Emporia Kempsville
58	10E	Emporia Kempsville Remlik

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

*Soils with potential for leaching based on soil texture or excessive drainage*

*Soils with perent slope in excess of 15%*

**Field Name: CRBAT 5**

Total Acres: 6.70 Usable Acres: 6.70

FSA Number: 6

Tract: 2825

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
7	10E	Emporia Kempsville Remlik
93	11B	Emporia Kempsville

**Field Warnings:**

**Field Name:** CRBAT 6

Total Acres: 13.40 Usable Acres: 13.40

FSA Number: 7

Tract: 2825

Location: Caroline

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

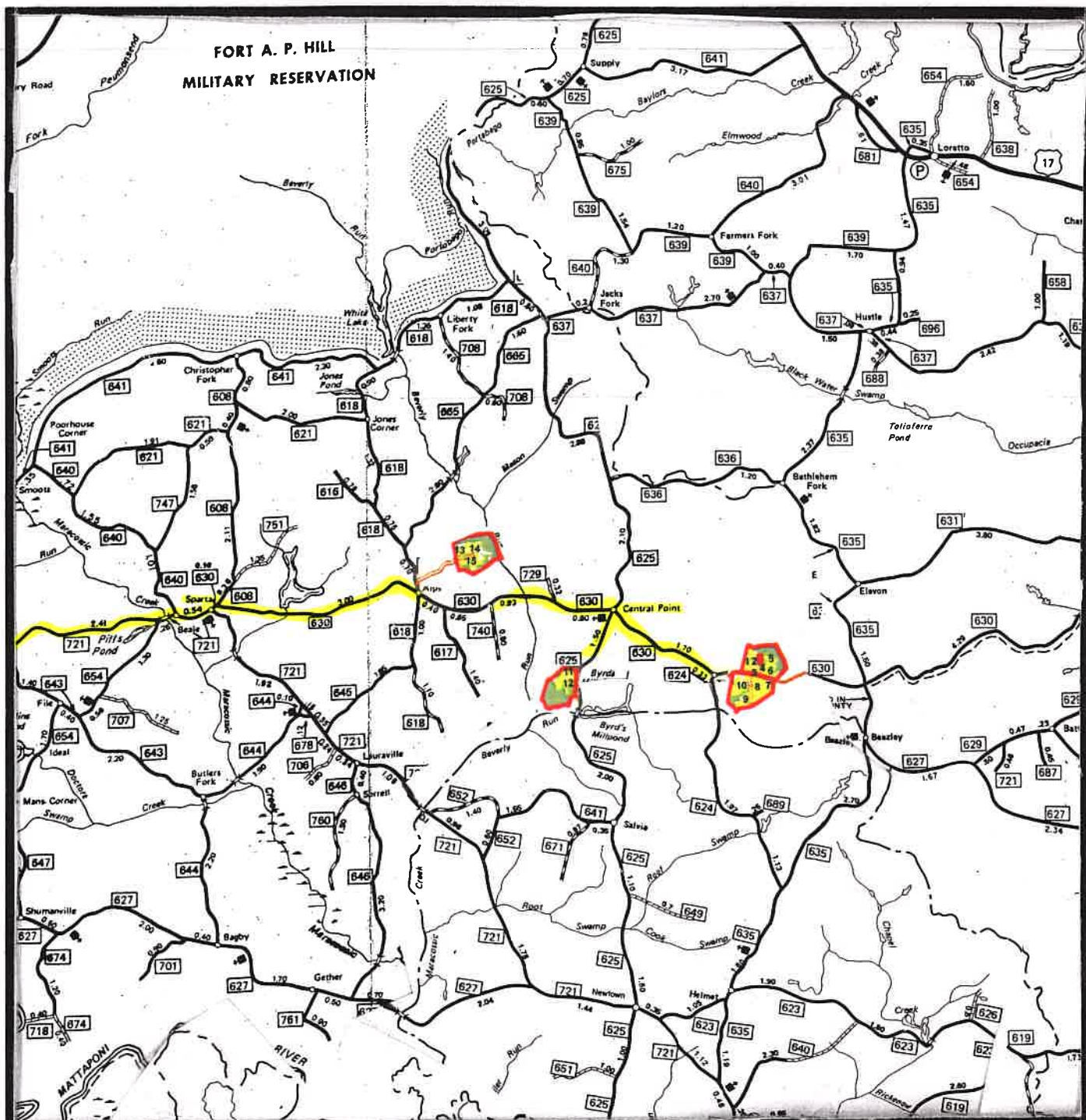
PERCENT	SYMBOL	SOIL SERIES
21	10E	Emporia Kempsville Remlik
73	11B	Emporia Kempsville
6	21C	Kempsville Slagle

**Field Warnings:**

# MAPS

# Recyc Systems<sup>TM</sup> Inc.

(Biosolids Land Application)



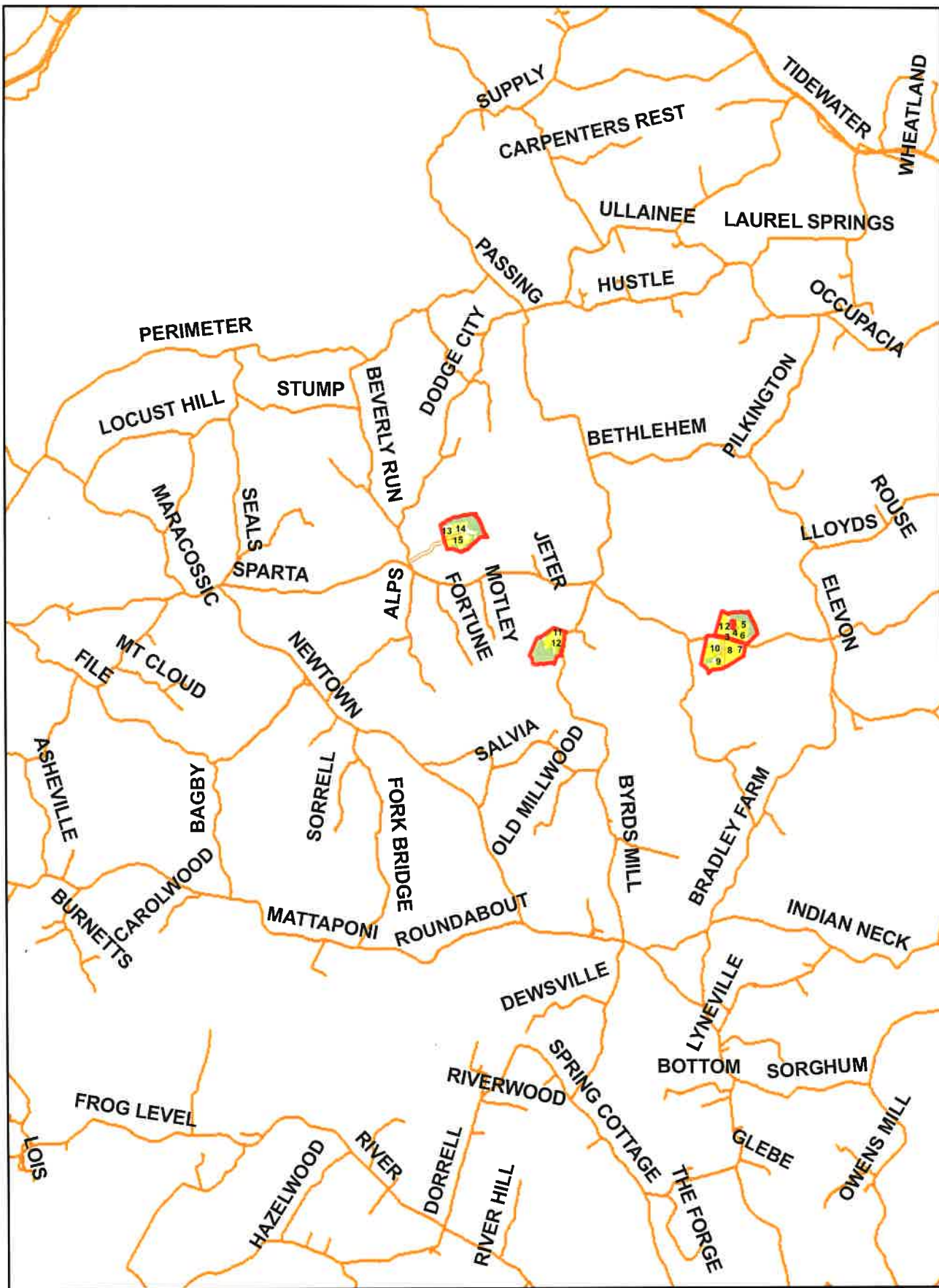
Scale: 1" = 2 Miles

## VICINITY MAP

Truck Route marked  
in Yellow

5-28-19



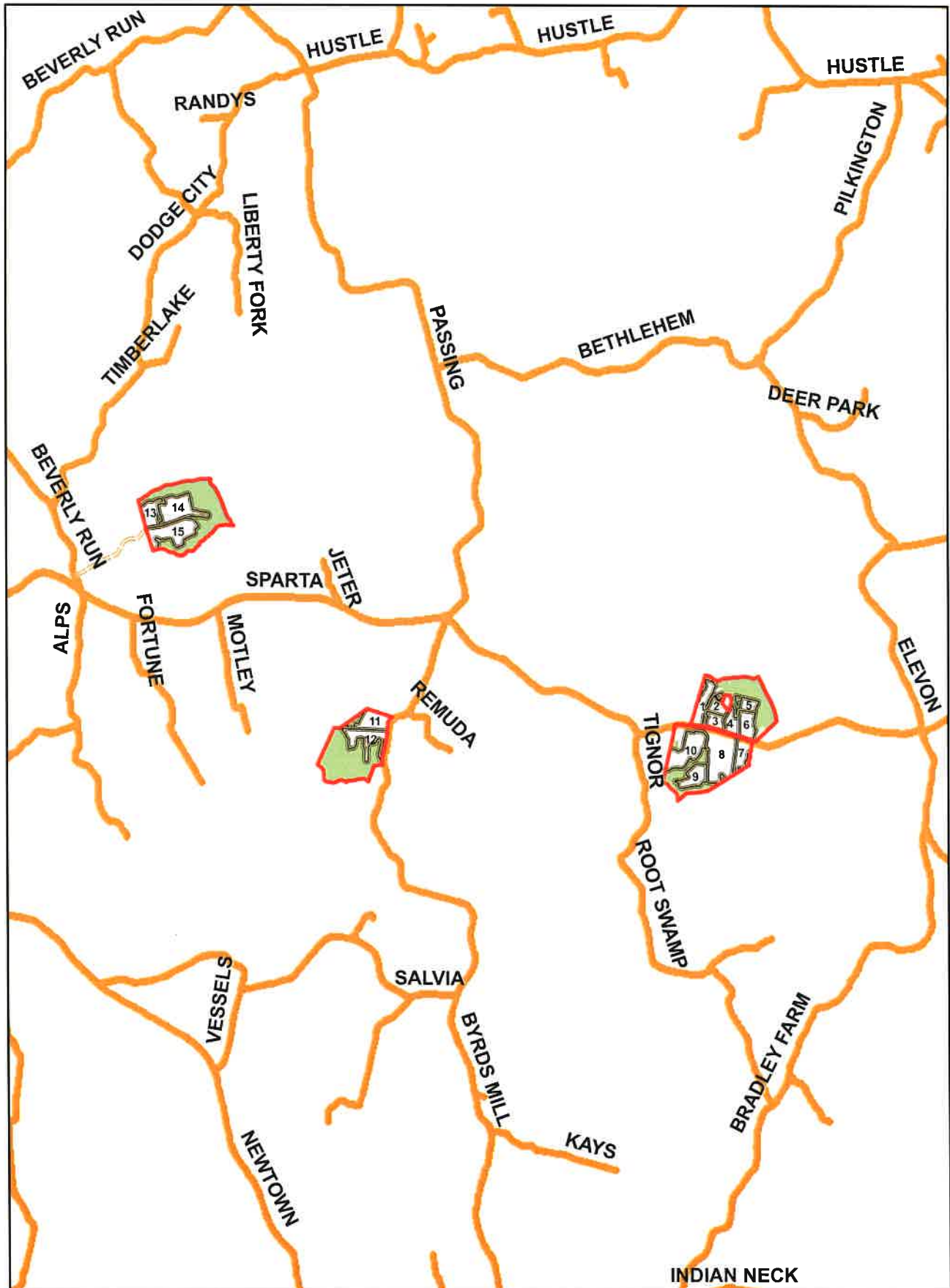


5-28-19

VICINITY MAP

1 in = 2 miles



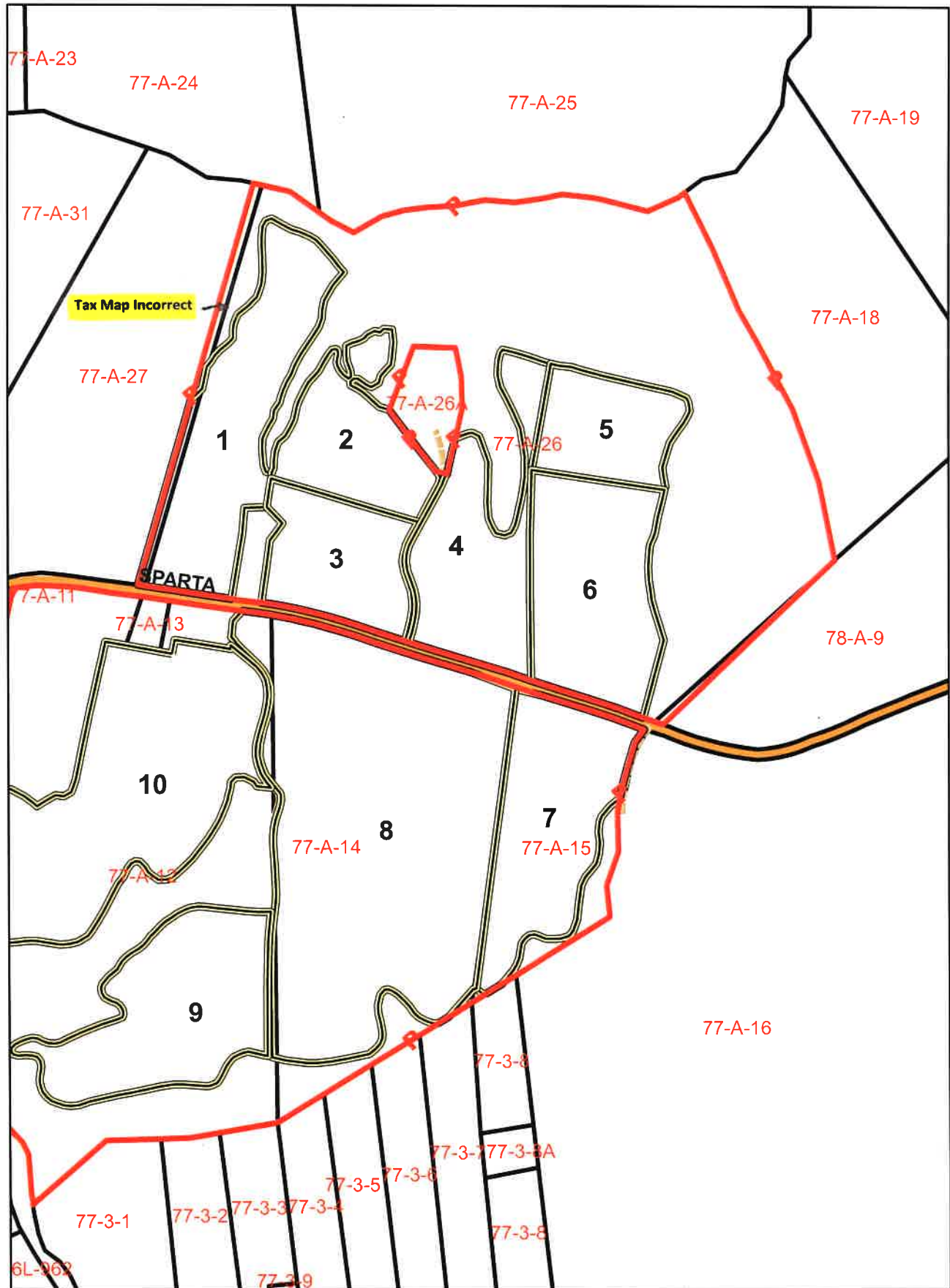


5-28-19

**VICINITY MAP**

1 in = 1 miles

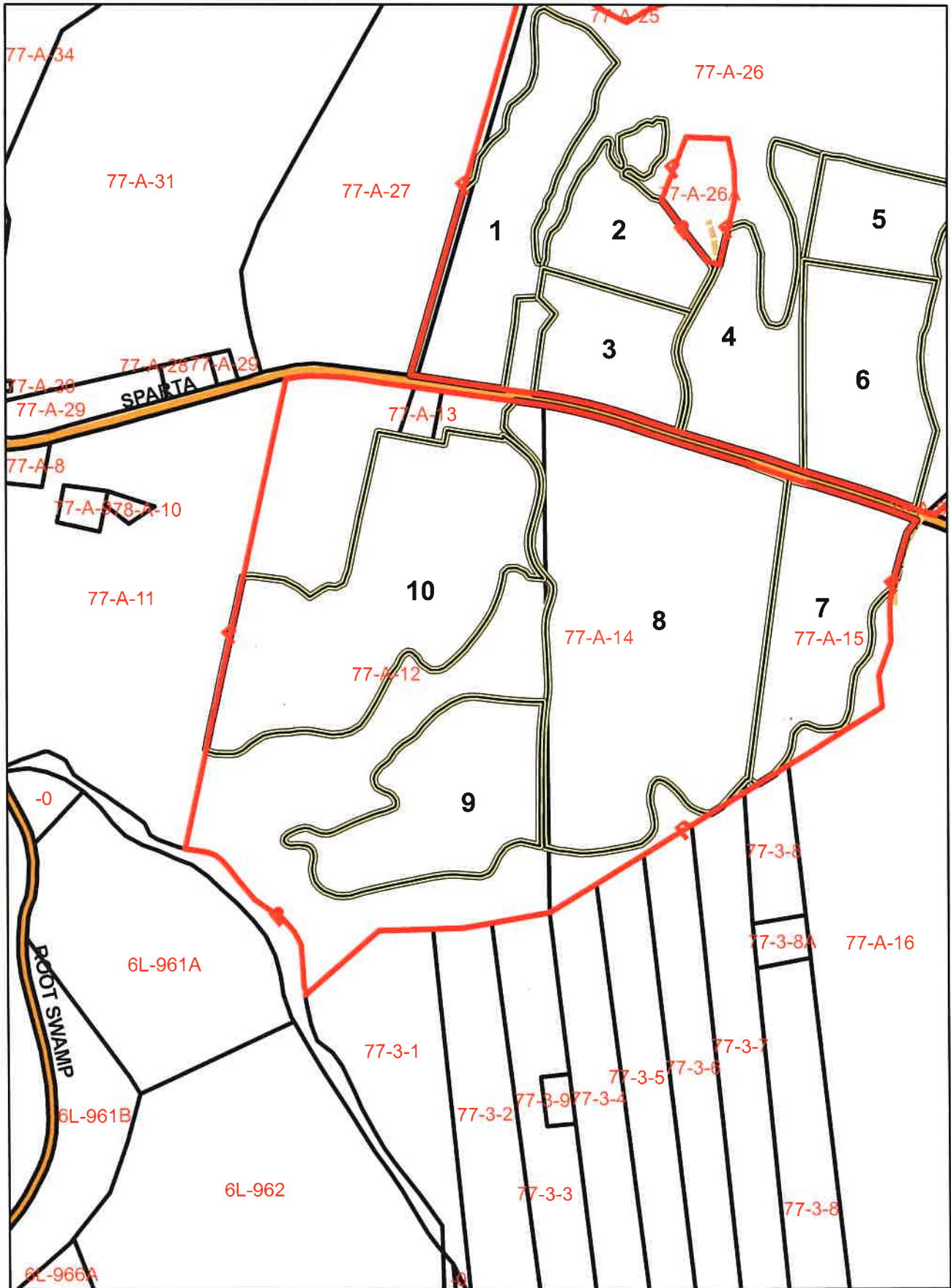




5-28-19

**TAX MAP**

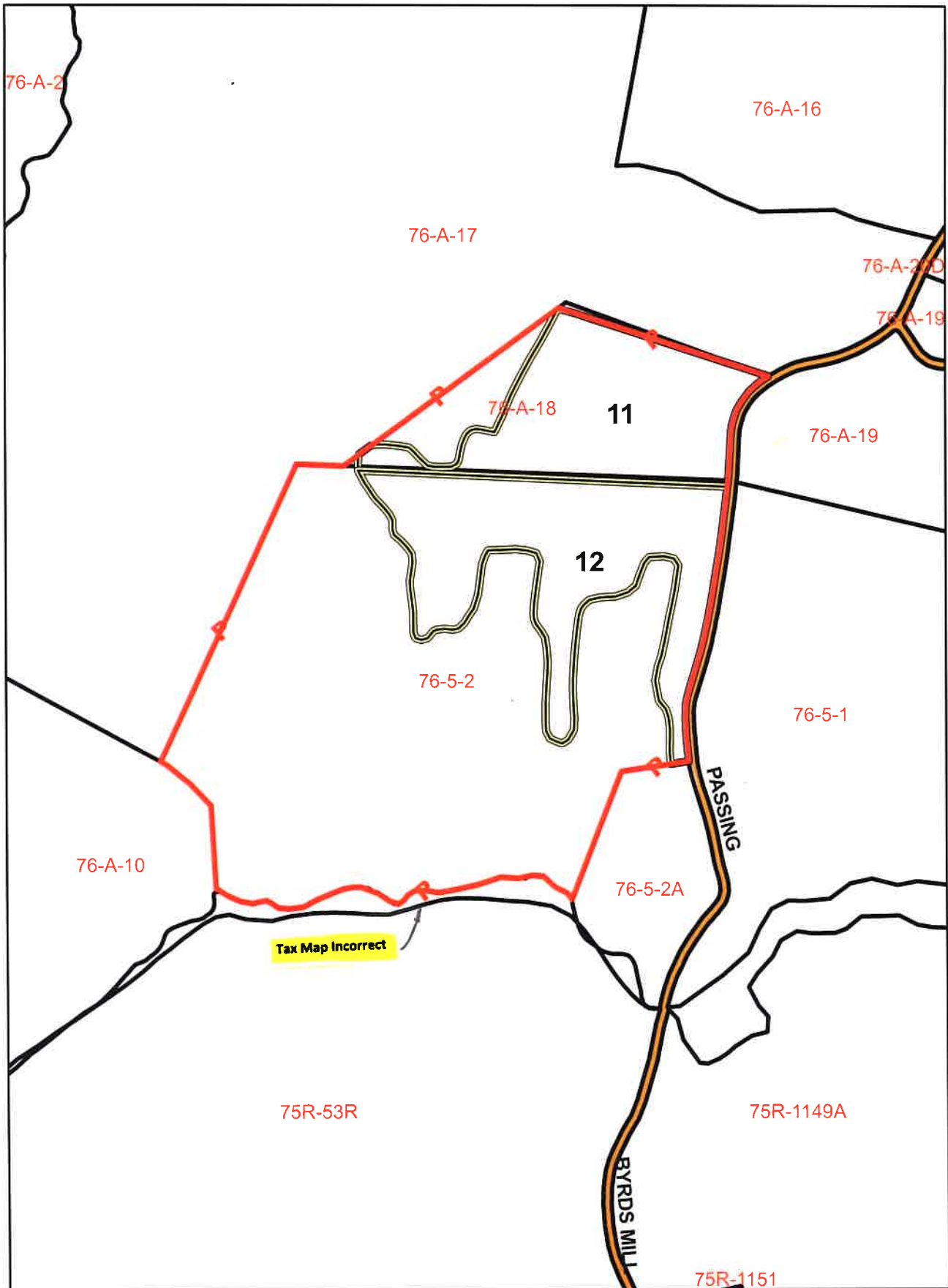
1 in = 660 feet



5-28-19

**TAX MAP**

1 in = 660 feet

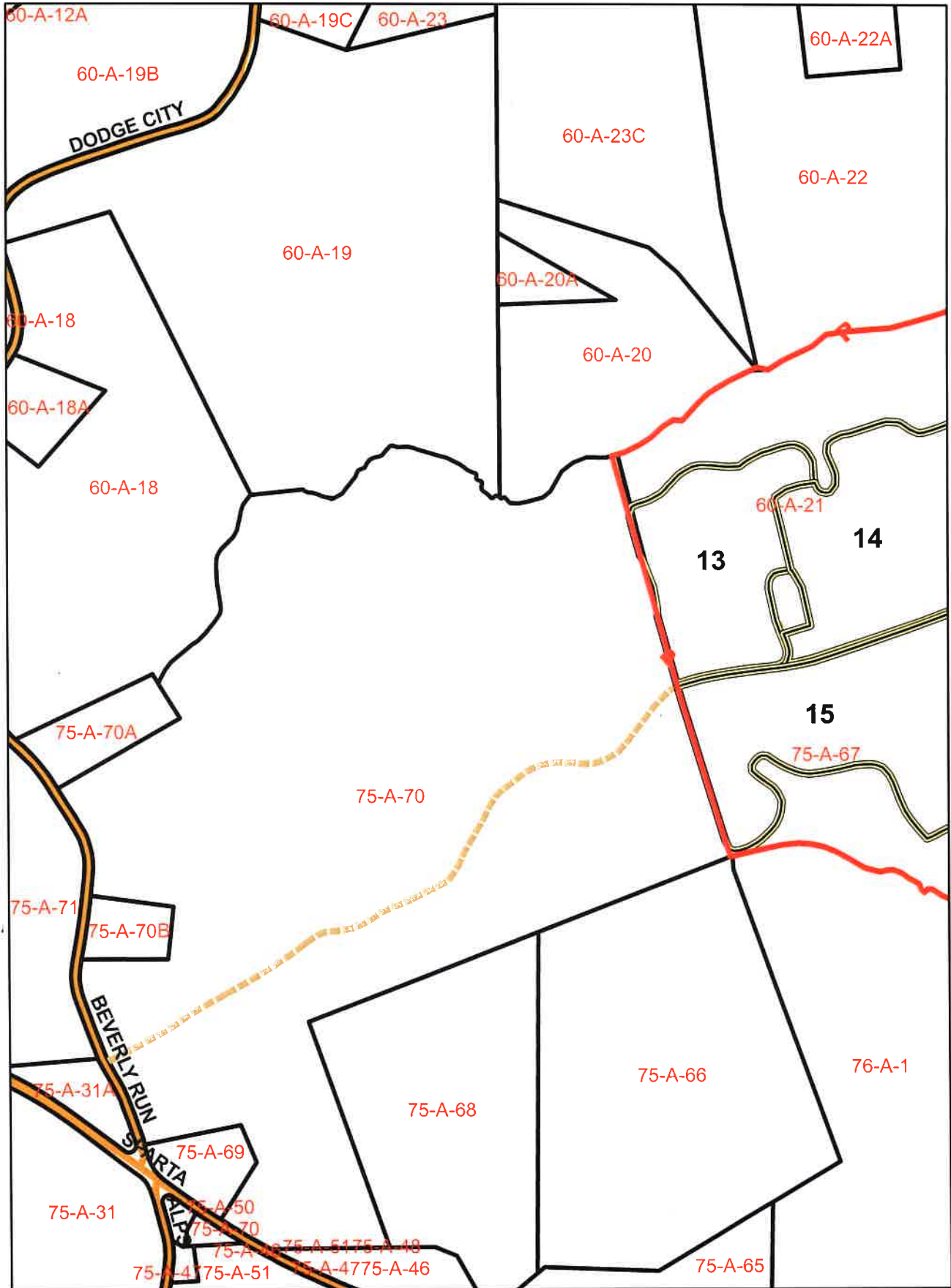


5-28-19

**TAX MAP**

1 in = 660 feet

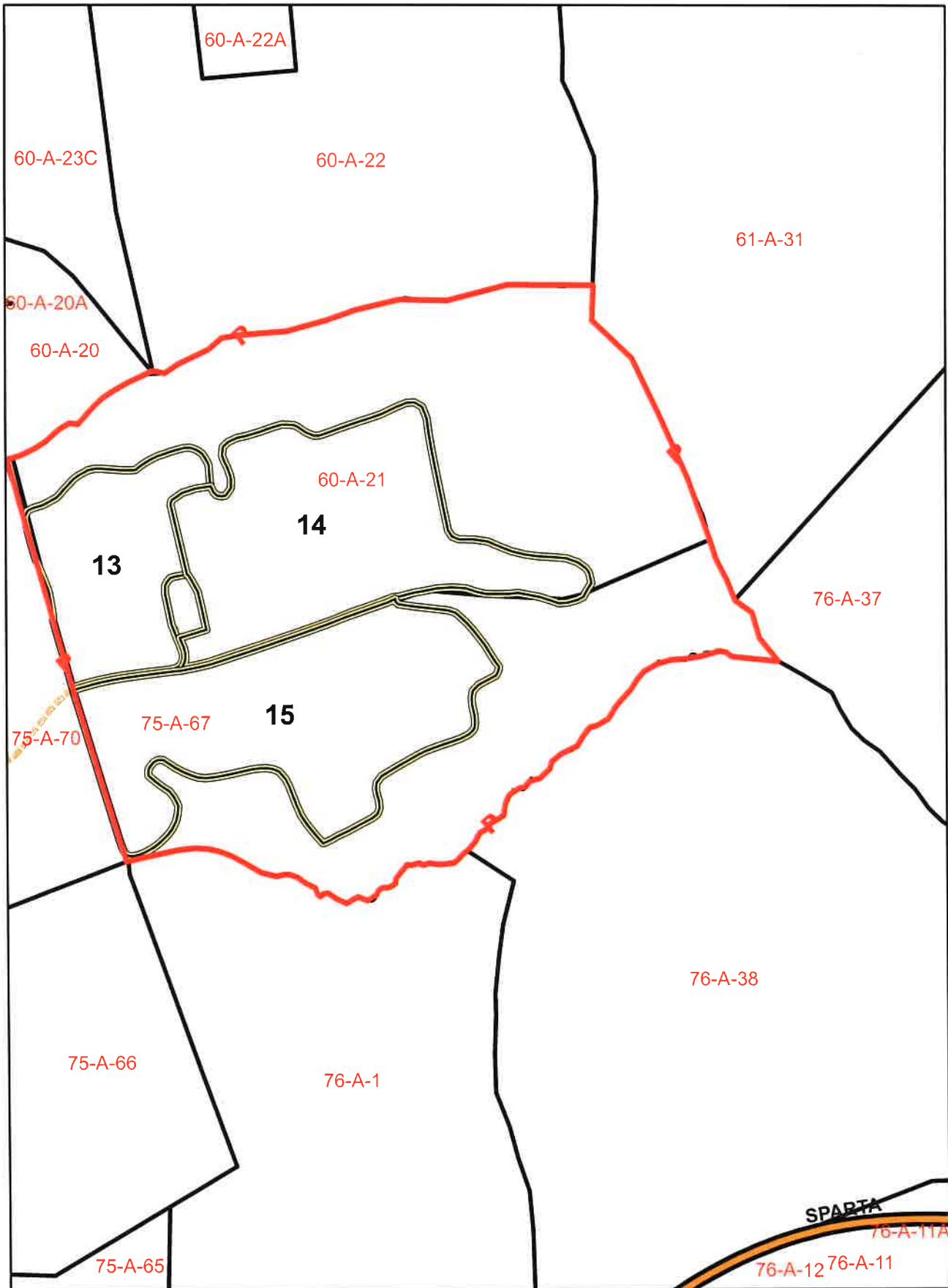




5-28-19

**TAX MAP**

1 in = 660 feet



5-28-19

**TAX MAP**

1 in = 660 feet



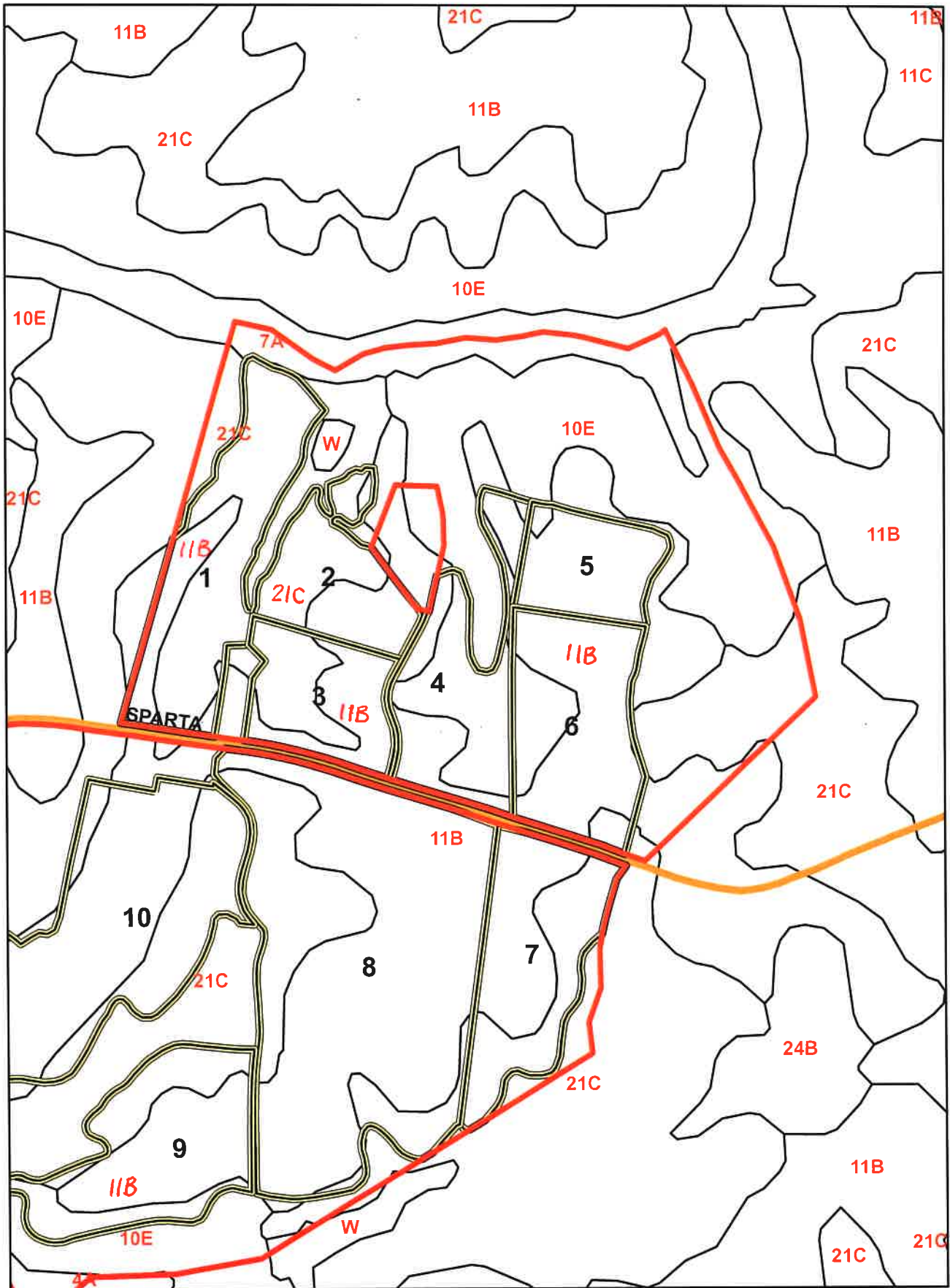
# ADJOINING LANDOWNERS

B.A. TIGNOR, JR.

## CAROLINE COUNTY

Tax Map	Parcel #	Owner Name(s)
77-A	11	CLARENCE W. & ELISE TIGNOR
	13	BENJAMIN A TIGNOR, JR. & BRENDA C TIGNOR TRUSTEES
	16	JOHN HANCOCK MUTUAL LIFE INSURANCE
	18	GILMAN LAND & TIMBER LLC
	24	JOHN F. DIXON TR.
	25	HAWAII TIMBERLAND LLC
	26A	TIGNOR LLC
	27	CLARENCE W. & ELISE TIGNOR
	28	CLARENCE W. TIGNOR
	29	CLARENCE W & ELISE TIGNOR
77-3	1	JEFFREY & JEREMIAH WRIGHT
	2	JEFFREY & JEREMIAH WRIGHT
	3	JEFFREY & JEREMIAH WRIGHT
	4	JEFFREY & JEREMIAH WRIGHT
	5	JEFFREY & JEREMIAH WRIGHT
	6	JEFFREY & JEREMIAH WRIGHT
	7	JEFFREY & JEREMIAH WRIGHT
	8	JEFFREY & JEREMIAH WRIGHT
76-A	10	ROBERT W. & ROBERTA J. NELSON
	17	ALPS FARM LLC
	19	INTERNATIONAL SWARNINARAYAN
76-5	1	INTERNATIONAL SWARNINARAYAN
	2A	MANLEY FOGG, JR. & NINA POWELL
60-A	20	JESSICA RAE LARSON
	22	BROADDUS PROPERTIES LLC
	23C	BORADDUS PROPERTIES LLC

<b>Tax Map</b>	<b>Parcel #</b>	<b>Owner Name(s)</b>
<b>61-A</b>	31	HAWAII ERS TIMBERLAND LLC
<b>76-A</b>	1 37 38	MICHAEL C. CURLEY HAWAII ERS TIMBERLAND LLC HELEN C. ANDERSON
<b>75-A</b>	66 70	Alps Farm LLC Alps Farm LLC
<b>KING AND QUEEN COUNTY</b>		
<b>6L</b>	962 961A	LEO N. FAUTEUX LEO N. FAUTEUX
<b>75R</b>	53R	BERNICE GORDON ROWE

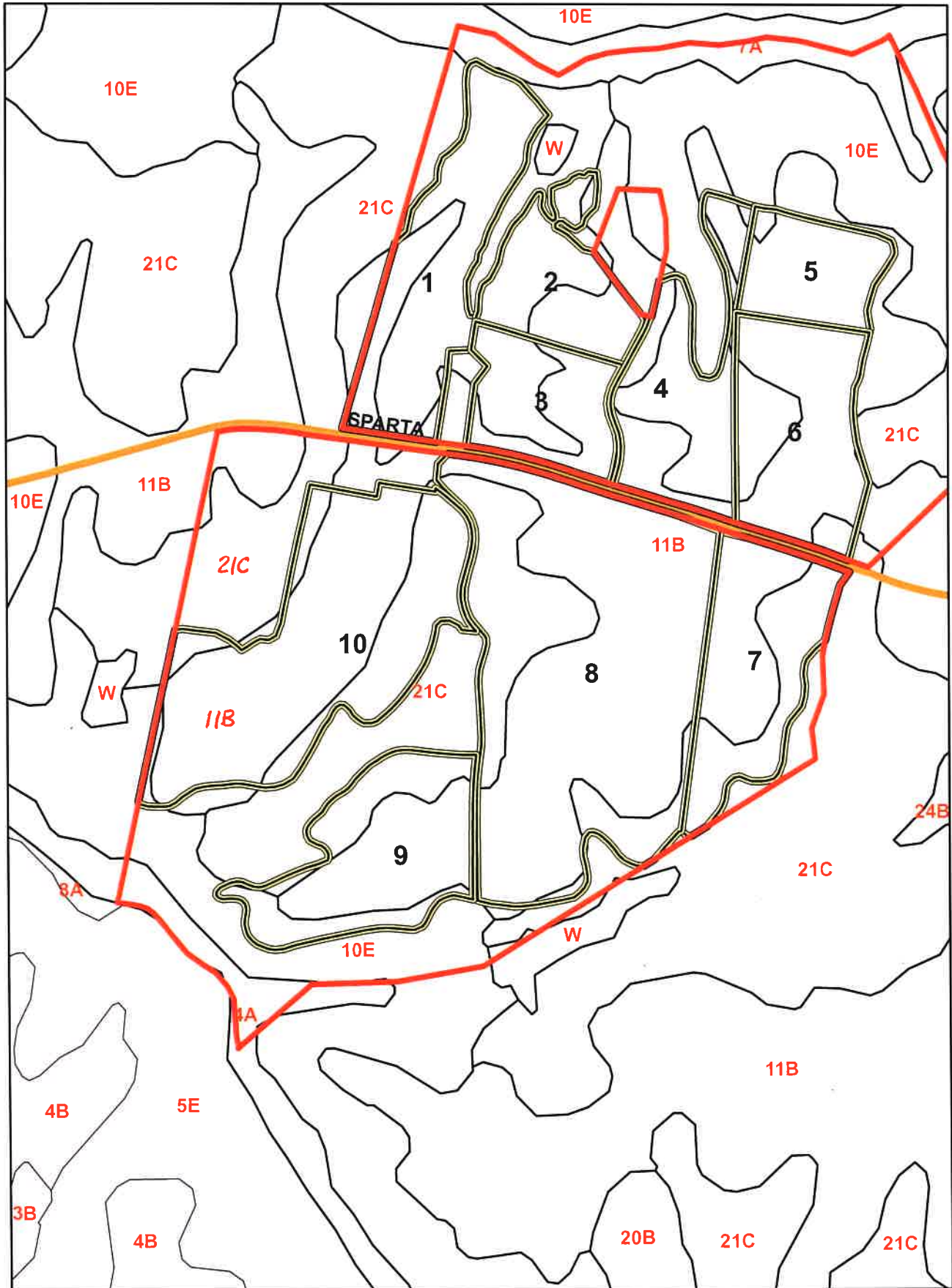


5-28-19

Frequent Flooding  
marked in Orange

# SOIL MAP

1 in = 660 feet



5-28-19

Frequent Flooding  
marked in Orange

## SOIL MAP

1 in = 660 feet



[illegible]

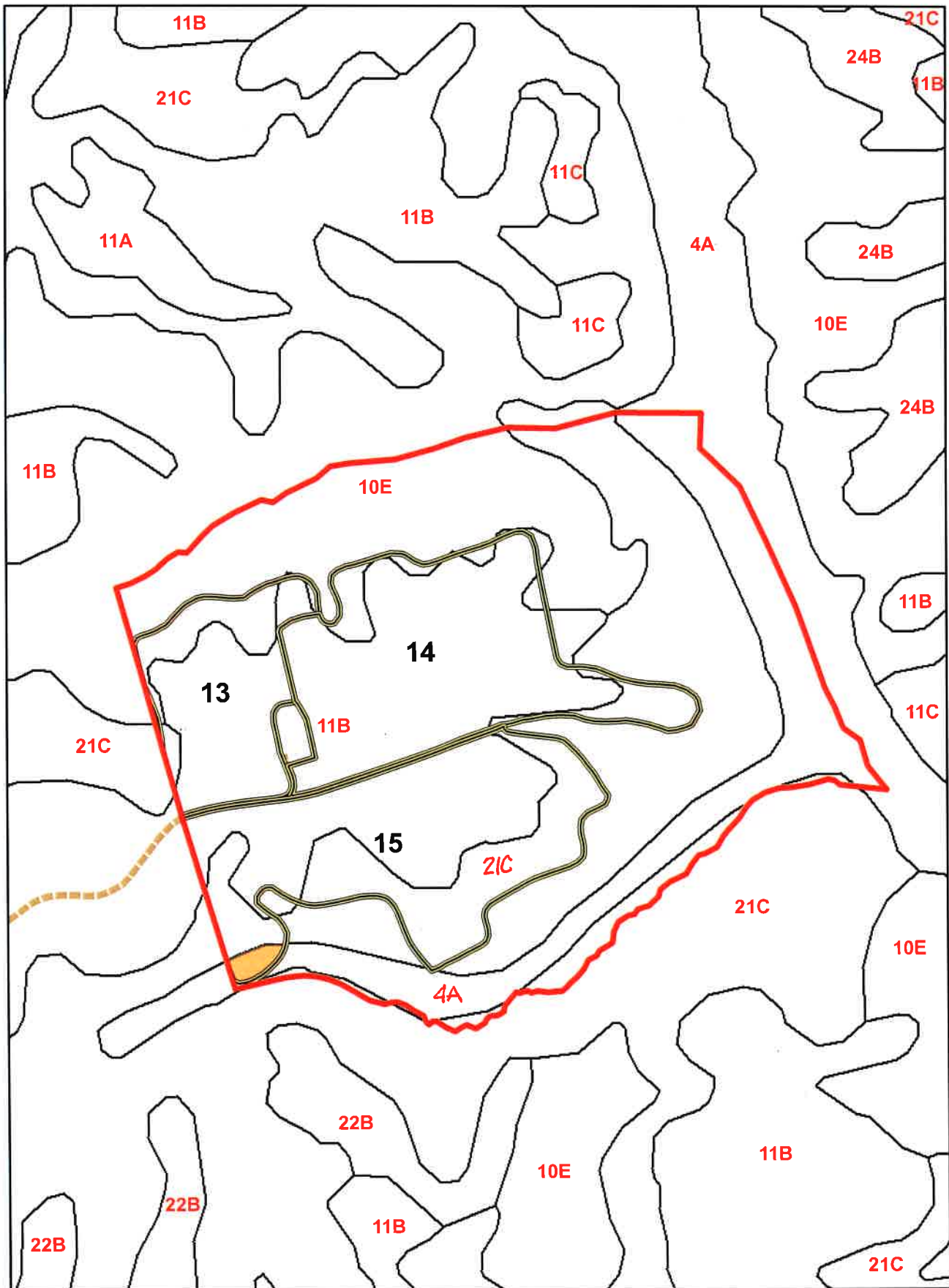
5-28-19

**Frequent Flooding  
marked in Orange**

# SOIL MAP

1 in = 660 feet





Frequent Flooding  
marked in Orange

## SOIL MAP

1 in = 660 feet

5-28-19



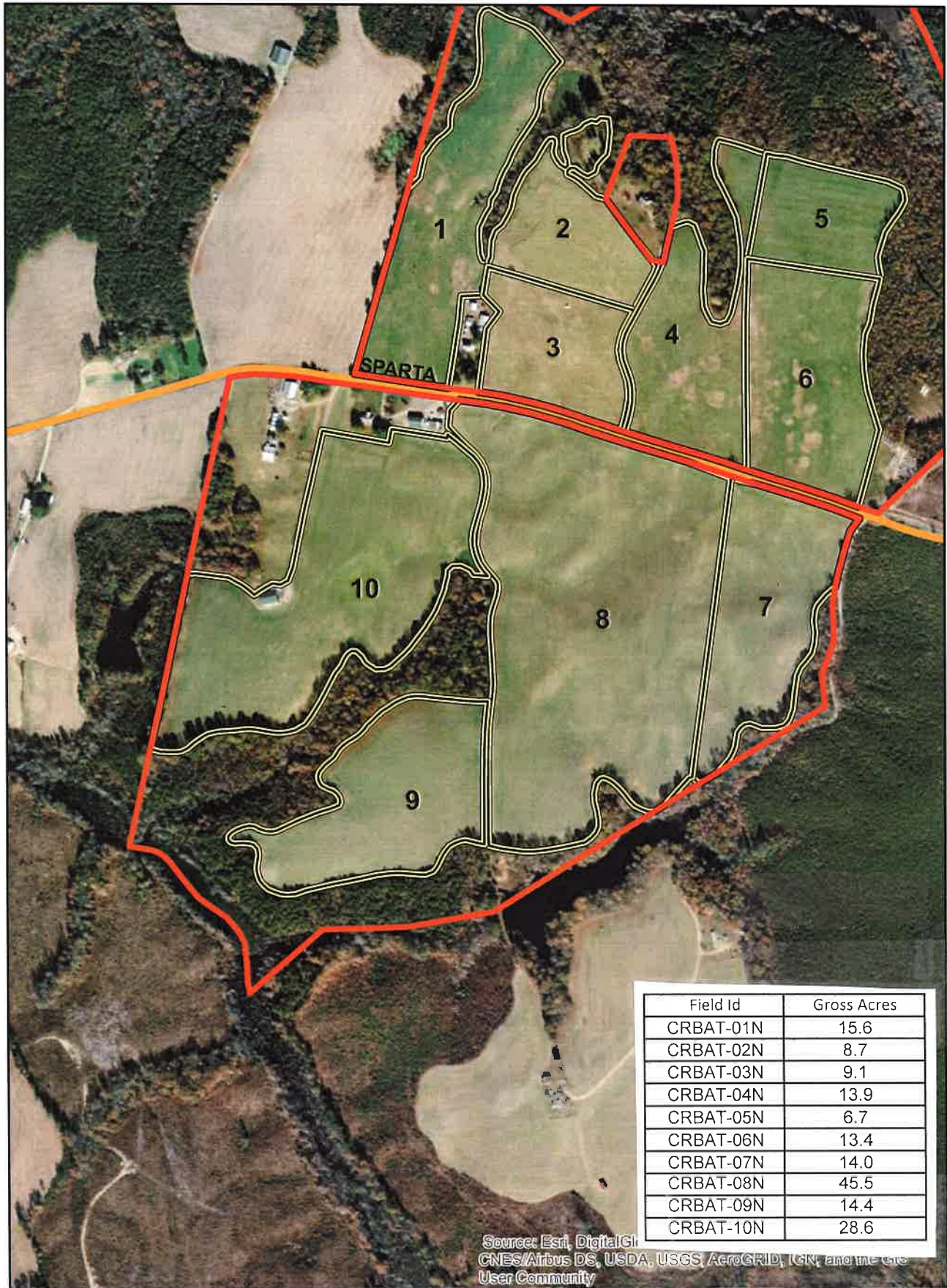
Source: Esri, DigitalGlobe, GeoEye, IGN, CNES/Airbus DS, USDA, AeroGRID, IGN, User Community



## AERIAL MAP

1 in = 660 feet





5-28-19

## AERIAL MAP

1 in = 660 feet



Field Id	Gross Acres
CRBAT-11N	18.6
CRBAT-12N	23.1



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



5-28-19

**AERIAL MAP**

1 in = 660 feet



5-28-19

**AERIAL MAP**

1 in = 660 feet



United States  
Department of  
Agriculture

## Caroline County, Virginia

**Farm 3083**

**Tract 2825**

**2019 Program Year**

Map Created April 02, 2019

### Common Land Unit

- Non-Cropland
- Cropland
- rcl\_va033
- Tract Boundary

### Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

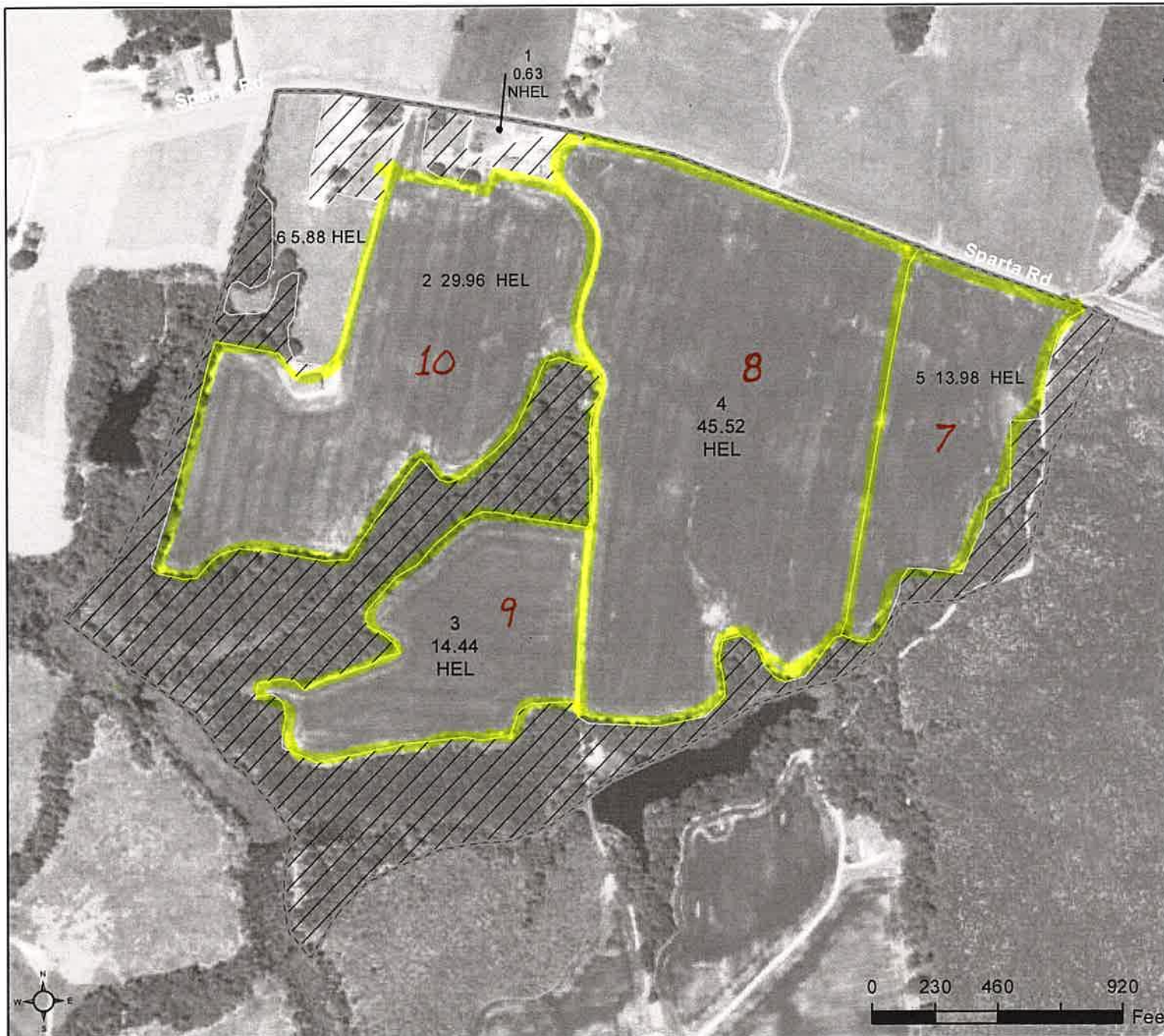
Tract Cropland Total: 63.00 acres



United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

Farm 3083

Tract 1521



2019 Program Year

Map Created April 02, 2019

### Common Land Unit

- Non-Cropland
- Cropland
- rcl\_l\_va033
- Tract Boundary

### Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 110.41 acres



United States  
Department of  
Agriculture

## Caroline County, Virginia

Farm 3083

Tract 1278

2019 Program Year

Map Created April 02, 2019

### Common Land Unit

Non-Cropland  
Cropland

rcl\_va033

Tract Boundary

### Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation  
Compliance Provisions

Tract Cropland Total: 16.65 acres



United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

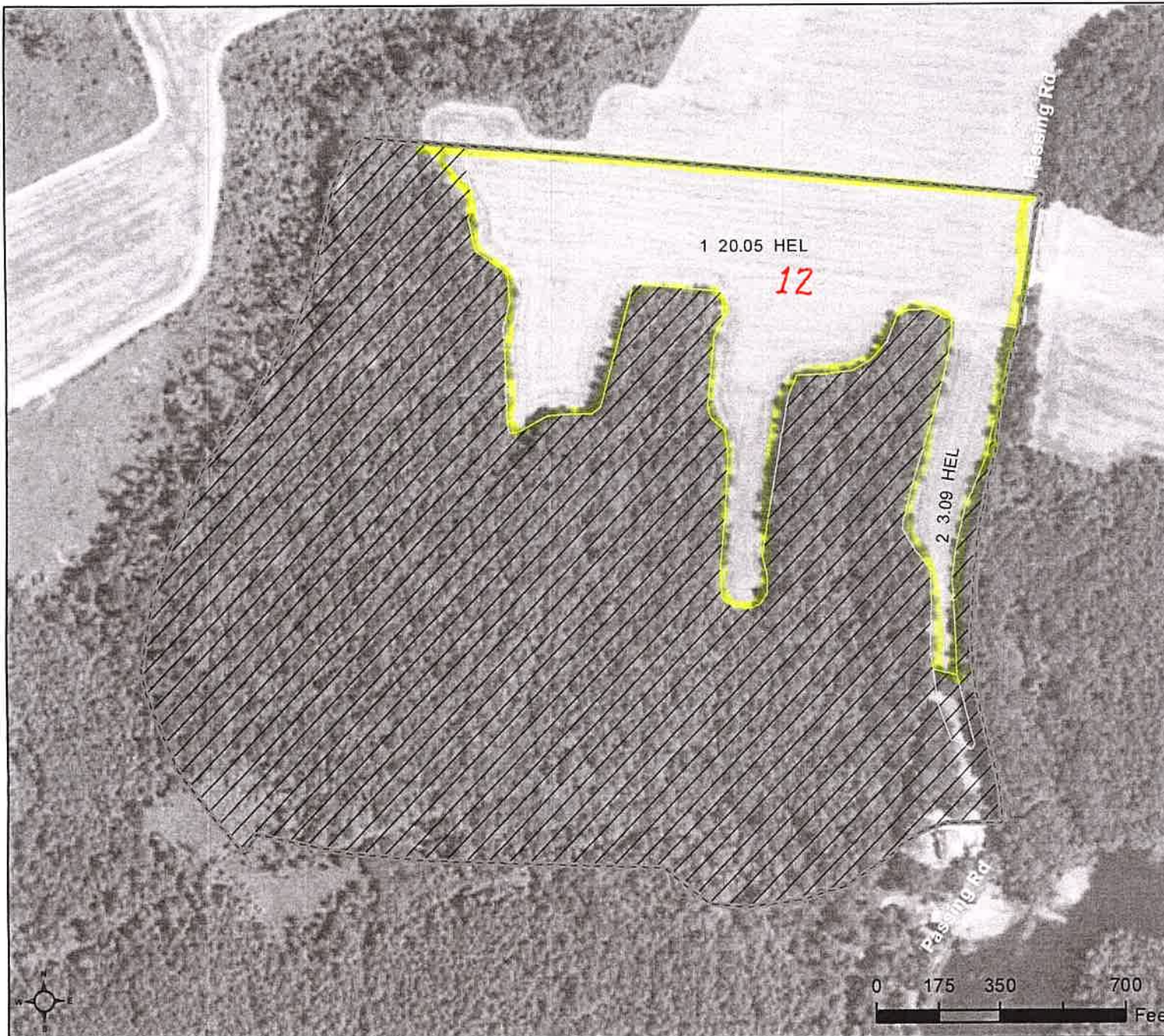


United States  
Department of  
Agriculture

## Caroline County, Virginia

Farm 3083

Tract 1564



2019 Program Year

Map Created April 02, 2019

### Common Land Unit

- Non-Cropland
- Cropland
- rcl\_l\_va033
- Tract Boundary

### Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 23.14 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

Farm 3083

Tract 284

2019 Program Year

Map Created April 02, 2019

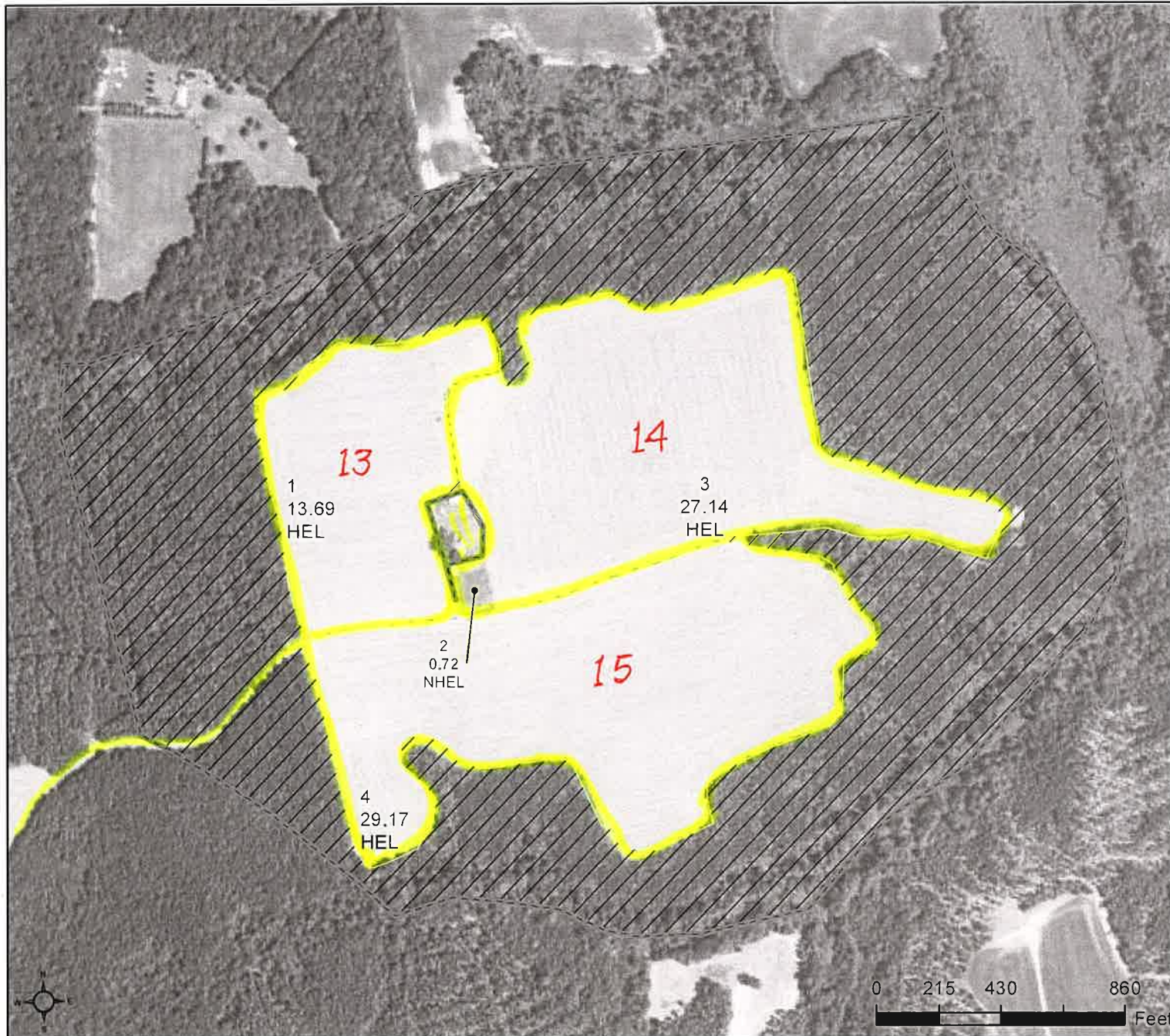
### Common Land Unit

- Non-Cropland
- Cropland
- Tract Boundary

### Wetland Determination Identifiers



- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 70.72 acres

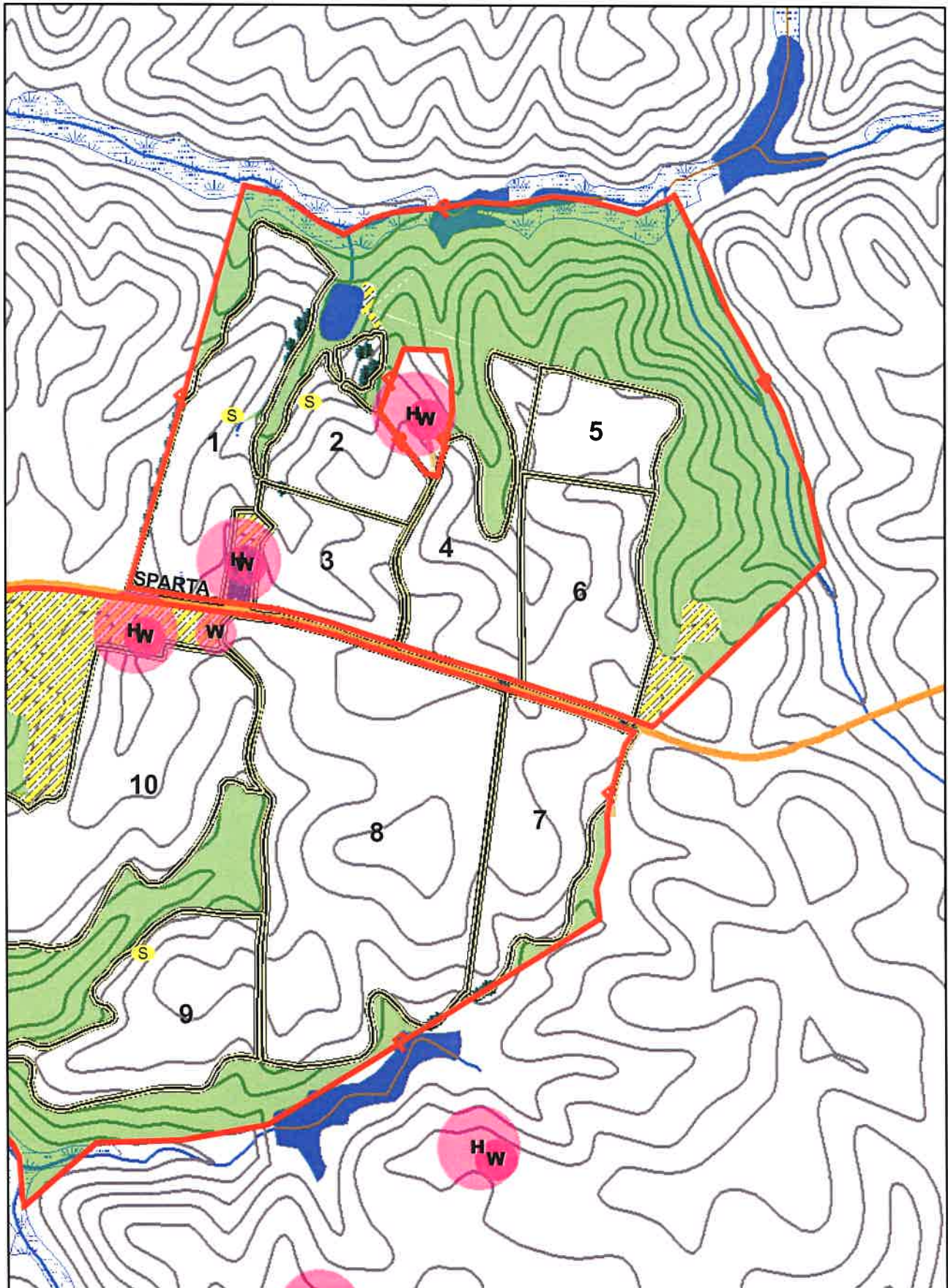


United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

# Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
 	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
  	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
 	Slope	15% maximum
	Hashed out Area	No application

\*Buffer can be reduced or waived upon written consent from landowner.

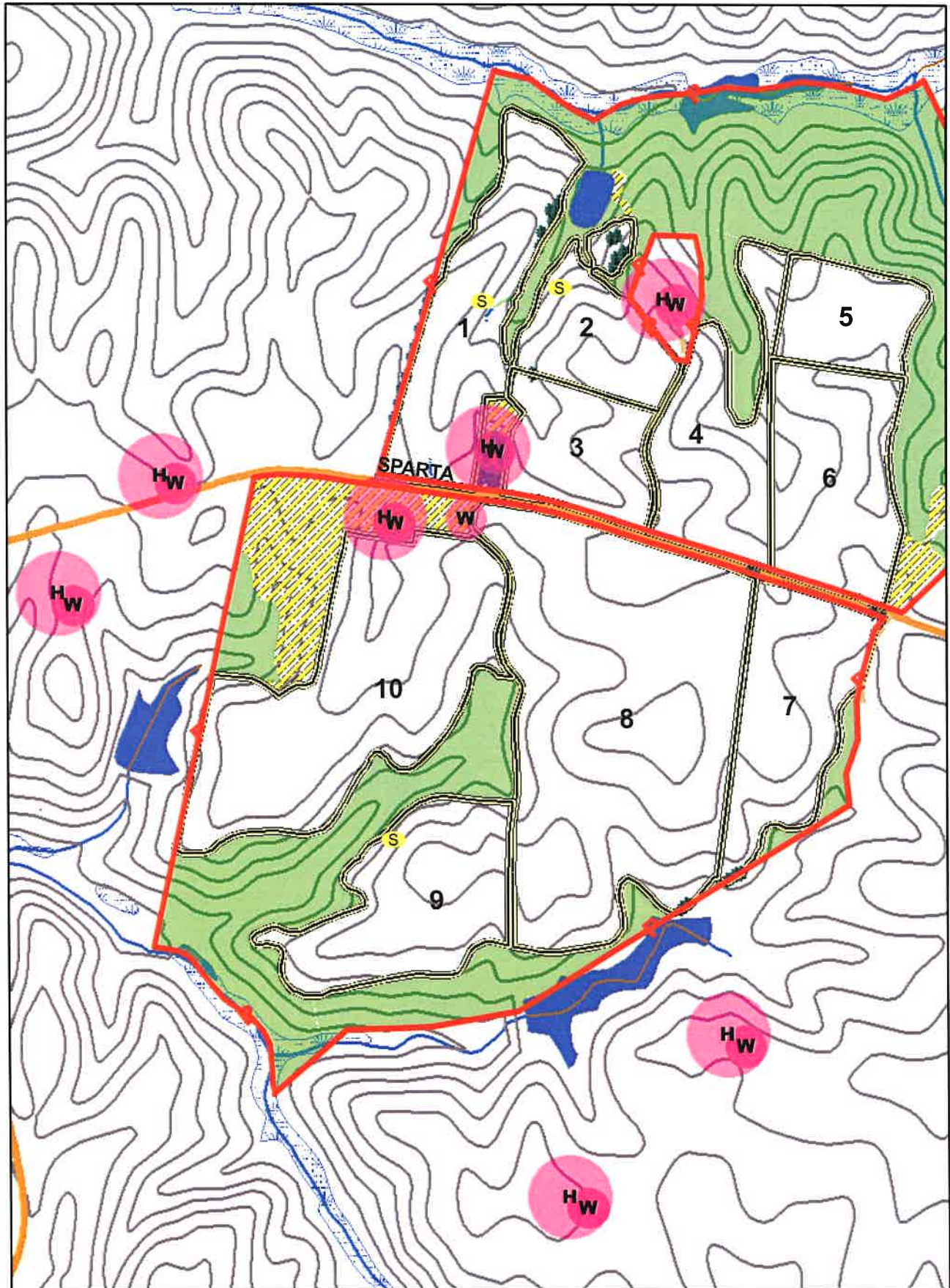


5-28-19

**SITE PLAN**

1 in = 660 feet

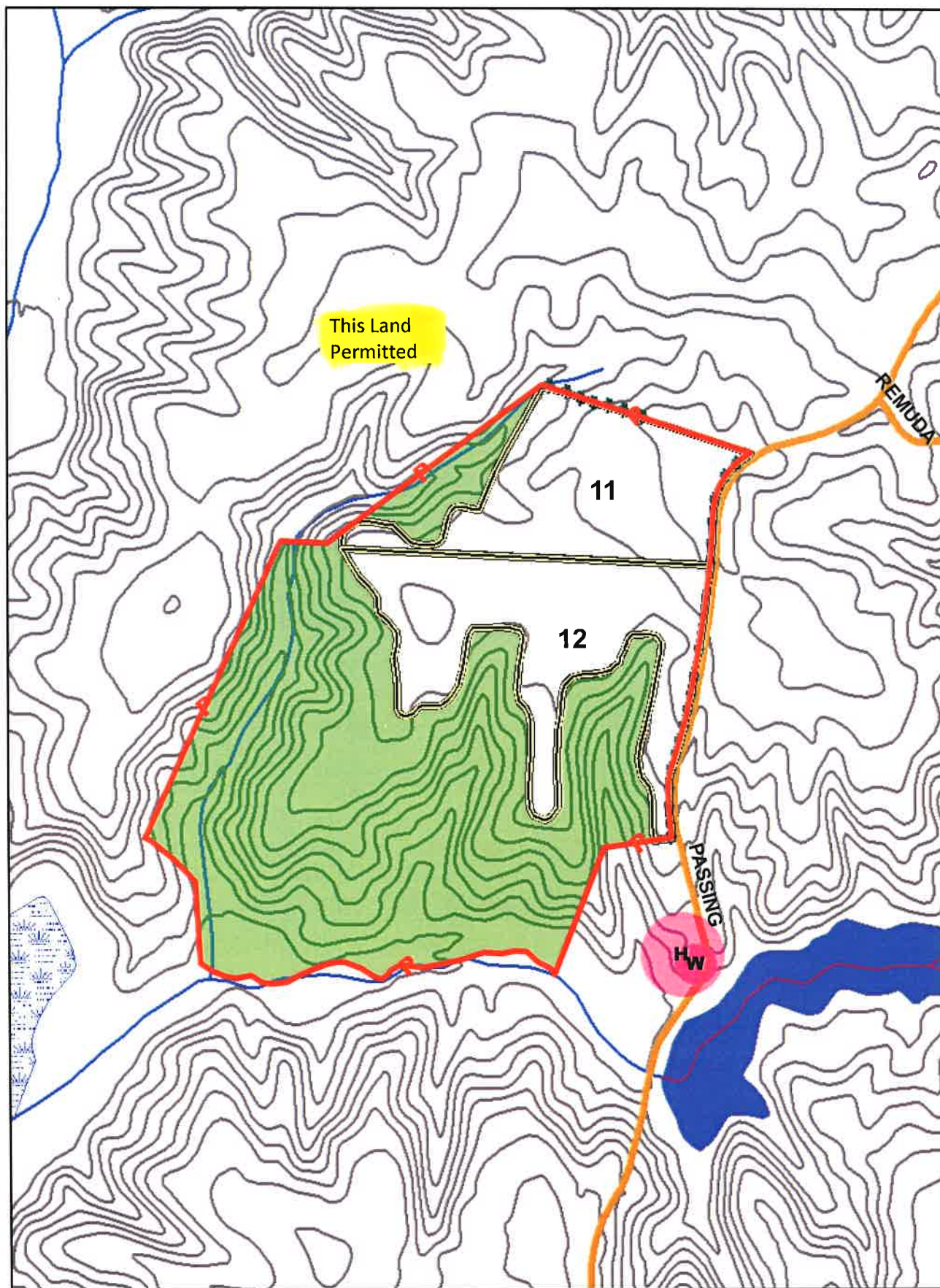




5-28-19

## SITE PLAN

1 in = 660 feet



5-28-19

# SITE PLAN

1 in = 660 feet



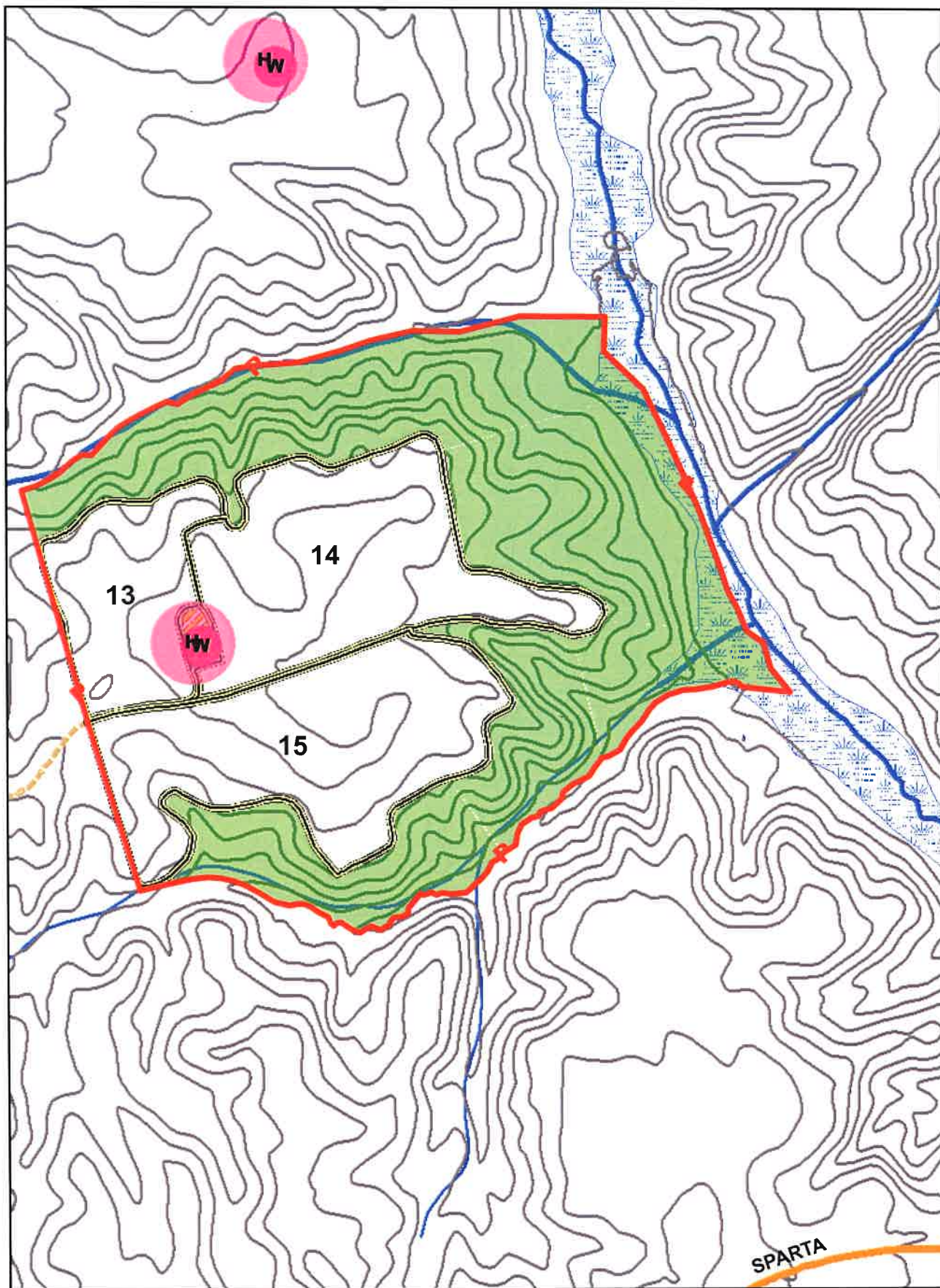
This is a topographic map of a region in Dodge City, showing a proposed land use change. The map features contour lines, a red boundary line, and a yellow callout box stating "This Land Permitted". Several pink circles with "HW" are marked, along with green shaded areas. The map is labeled with "DODGE CITY", "BEVERLY RUN", "SPARTA", and "ALPS".

5-28-19

# SITE PLAN

1 in = 660 feet

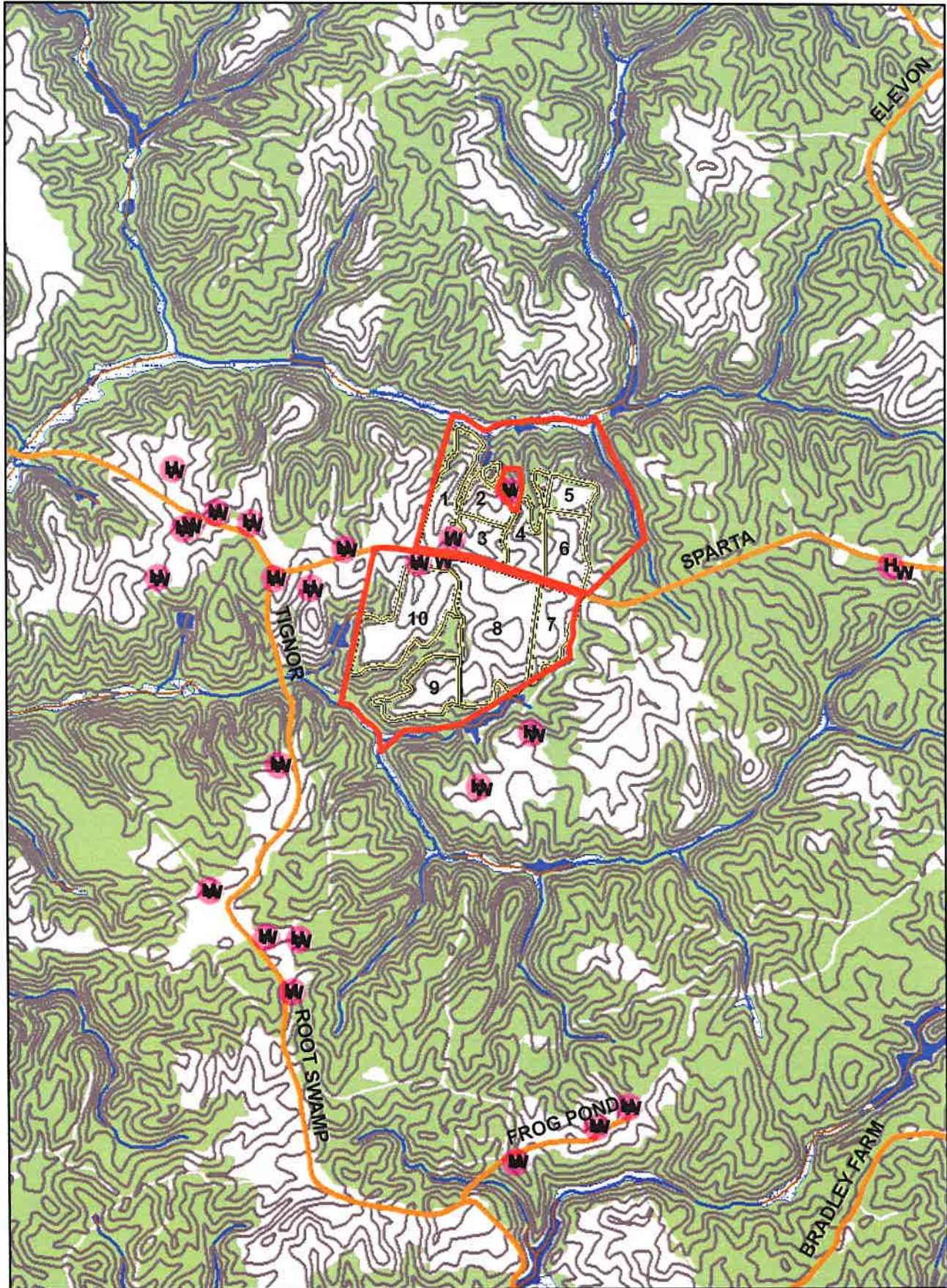




5-28-19

## SITE PLAN

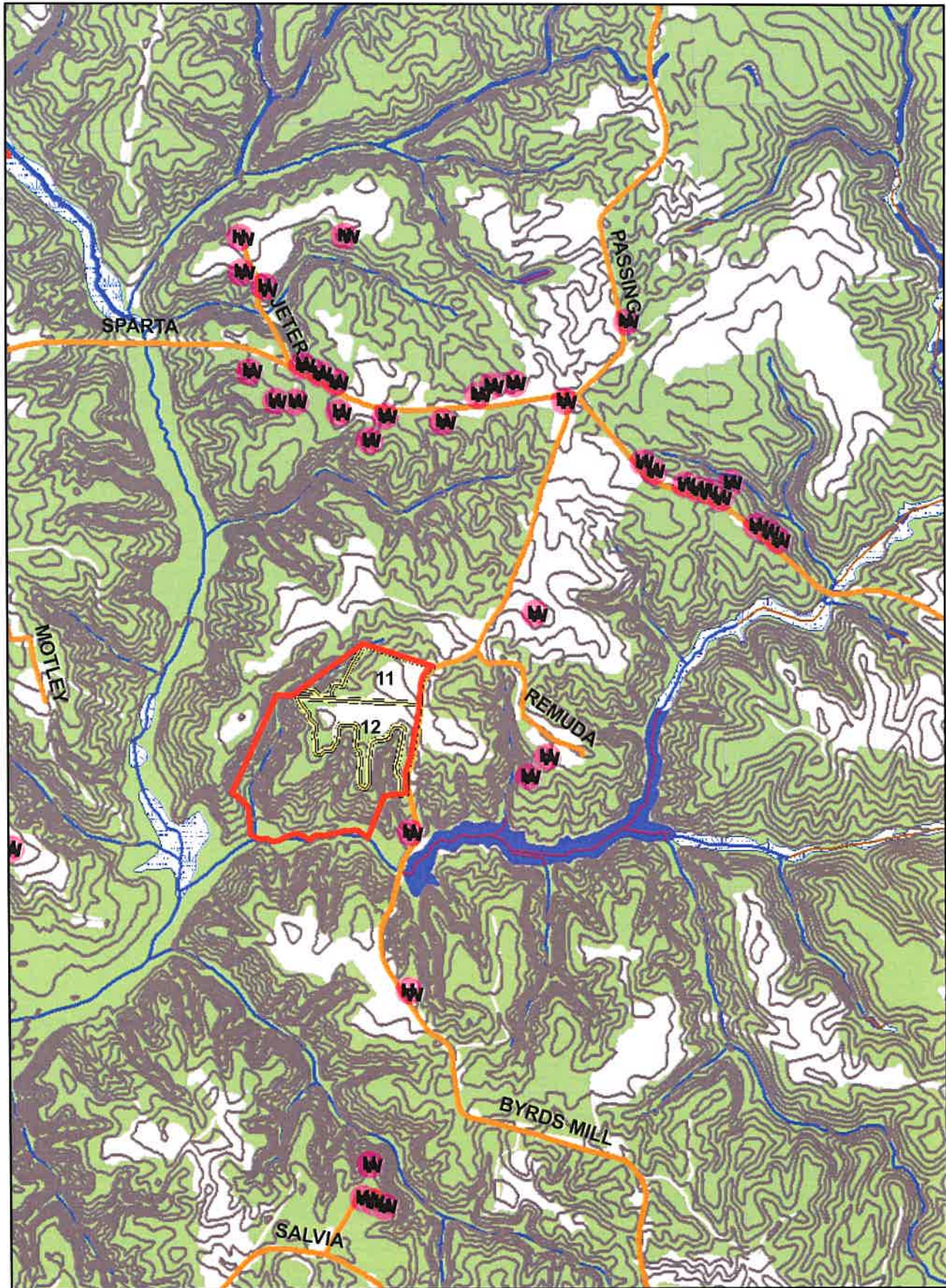
1 in = 660 feet



5-28-19

TOPOGRAPHIC MAP

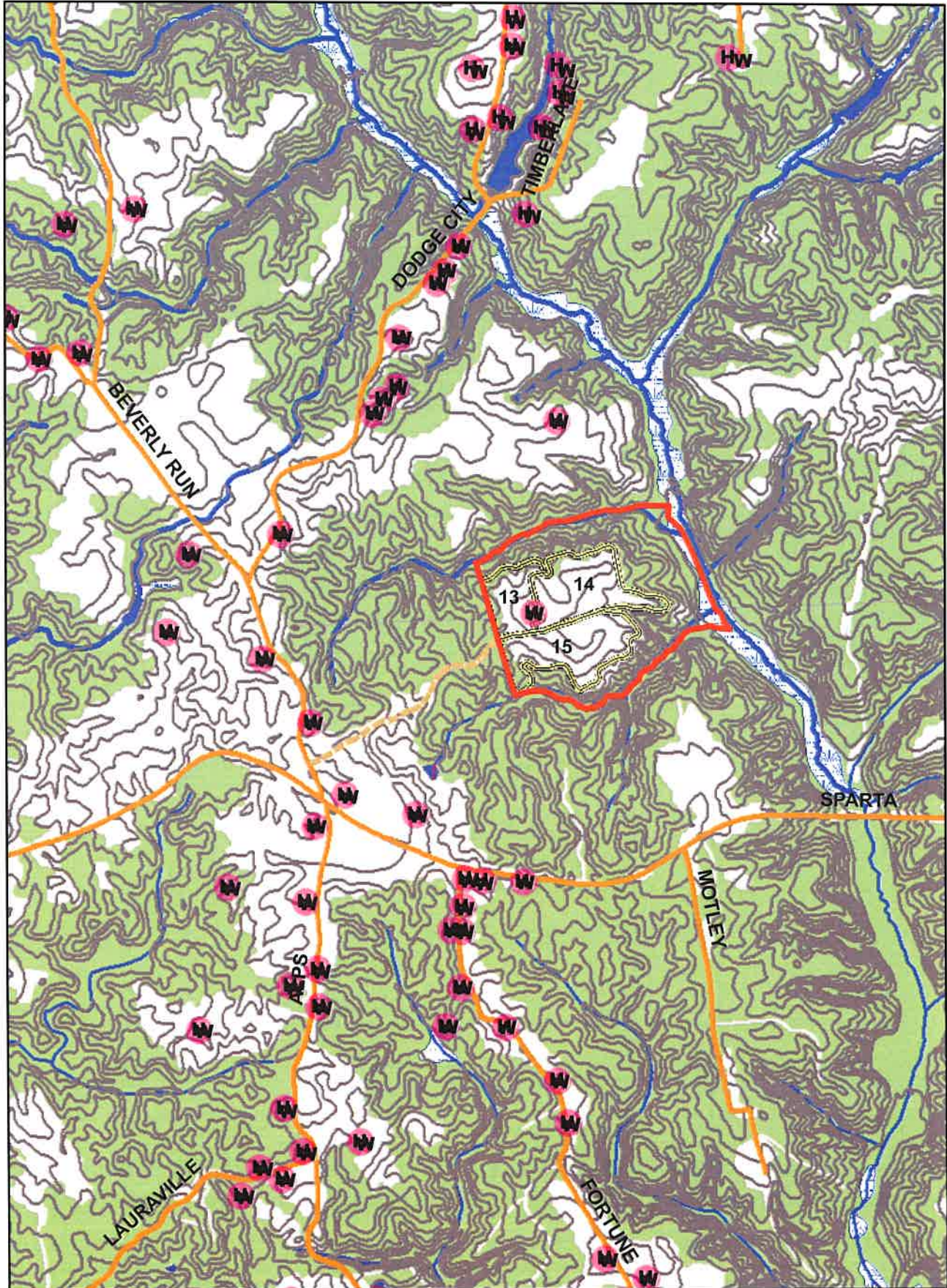
1 in = 2,000 feet



5-28-19

TOPOGRAPHIC MAP

1 in = 2,000 feet



5-28-19

TOPOGRAPHIC MAP

1 in = 2,000 feet